

Career Paths: Project Engineer to Project Manager

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High School
Community
College,
Teacher or
Engineer?

**UCLA,
U.C. Berkeley**
PhD?

Martin/Martin
Moved to Colorado

Great Projects
Growing Technical
Competency

Boston
Career vs. Family
Remote Work

**Structures
Congress**
Move to SF, Open Office
Run at the Lake

**Lectures,
Codes,
Professional
Organizations**
True North

**What's
Next?**
Challenges



Themes:

Unequal Paths to Engineering

Find Your True North

Be Your Own Advocate

Don't Sacrifice Technical Competency

Ebbs and Flows Are Natural

Work Life Balance vs. Making Intentional Decisions

Say Yes!

Get Involved

Lifelong Learning

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Day in the Life

0-2 Years: EIT-1, EIT-2

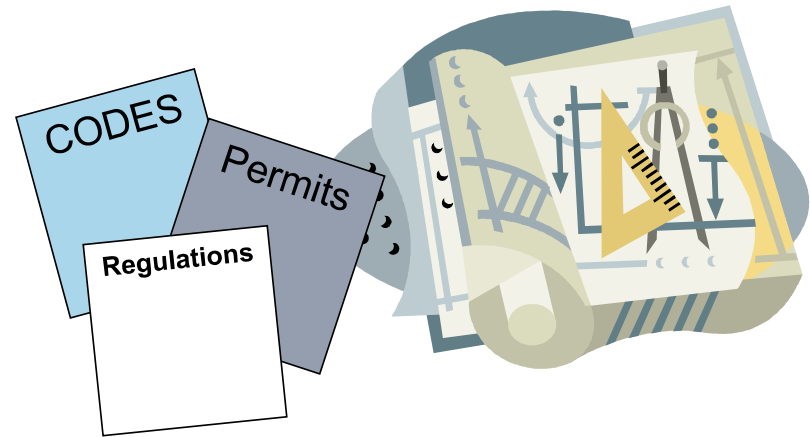
- Revit Modeling
- Calculations: Beams, columns, slabs, walls, frames
- Construction Administration: Shop drawings, site visits with assistance
- Collaborating With: Project Manager



Day in the Life

3-5 Years: Professional Engineer (PE)

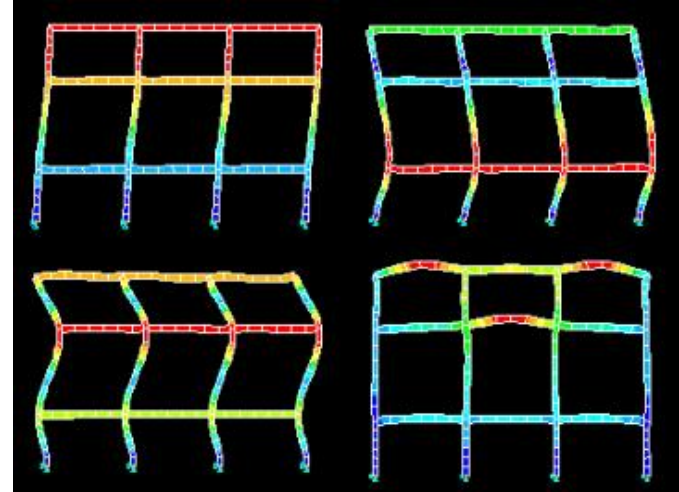
- Revit Modeling
- Calculations: Beams, columns, slabs, walls, frames, connections, complex/ unique conditions
- Construction Administration: Shop drawings, site visits, RFIs
- Collaborating With: Project Manager, Engineer-in-Training, Contractor, Architect



Day in the Life

6-9 Years: Project Manager (SE)

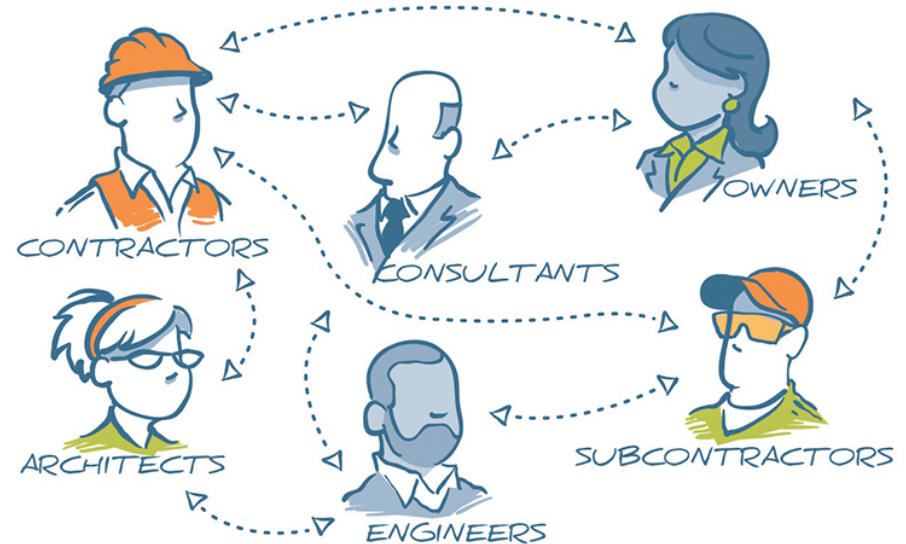
- ~~Revit Modeling~~
- Calculations: Beams, columns, slabs, walls, frames, connections, complex/ unique conditions
- Specifications
- Construction Administration: Shop drawings, site visits, RFIs
- Collaborating With: Principal, Engineer-in-Training, Contractor, Architect



Day in the Life

9-12 Years: Senior Project Manager

- ~~Revit Modeling~~
- Calculations: Beams, columns, slabs, walls, frames
- Construction Administration: Shop drawings, site visits, RFIs
- Collaborating With: Principal, Engineer-in-Training, Contractor, Architect
- Multiple Simultaneous Projects



Day in the Life

12-15 Years: Associate

- ~~Revit Modeling~~
- ~~Calculations: Beams, columns, slabs, walls, frames~~
- ~~Construction Administration: Shop drawings, site visits, RFIs~~
- Collaborating With: Principal, Project Manager, Contractor, Architect
- Multiple Simultaneous Projects
- Stamping and Signing Projects
- Responsible for Business Development



Day in the Life

15+ Years: Principal

- ~~Revit Modeling~~
- ~~Calculations: Beams, columns, slabs, walls, frames~~
- ~~Construction Administration: Shop drawings, site visits, RFIs~~
- Collaborating With: Fellow Principals, Clients, Staff
- Multiple Simultaneous Projects
- Stamping and Signing Projects
- Responsible for Business Development
- Contracts, Agreements
- Running a Business: Hiring, Staffing, Negotiations, Quality Control, Projects,...





Job Market

Today's Market

How to Interview for Job/ Internship During Covid:

- Learn something about the firm, interviewee in advance.
- Always have a prepared question for end.
- Consider it a two-way interview.
- Maintain eye-contact, even if by Zoom
- Be on-time
- Do your best to avoid technical/ connection issues.
- Dress professionally.
- Minimize distractions.
- Send a thank you email after interview.

Important Considerations When Selecting Firm:

- Firm size: Benefits of a small or large firm.
- Firm location: City, suburb, Outside of CA
- Salary: Base salary versus benefits
- Culture, Retention: Ask good questions during interview
- Firm Focus: Structures, bridges, non-building markets, project size, markets.

An aerial photograph of a city skyline, likely Dubai, with numerous skyscrapers rising from a thick, white layer of clouds. The sky is a pale blue-grey. The buildings vary in height and design, with some featuring distinctive architectural elements like spires or rounded tops. Several construction cranes are visible on top of some buildings, indicating ongoing development.

Questions?

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